

# DER Roadshow

April 29, 2003

## Indiana Department of Commerce Energy & Recycling Office

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[www.state.in.us/doc/businesses/Energy.html](http://www.state.in.us/doc/businesses/Energy.html)



***Indiana***  
*Be in a state of progress*

## **Indiana Department of Commerce**

# Indiana Department of Commerce (IDOC)

- Economic Development
- Community Development
  - Energy & Recycling Office
  - Rural Development
  - Main Street, Downtown Development
- Regional Operations
- Professional Services

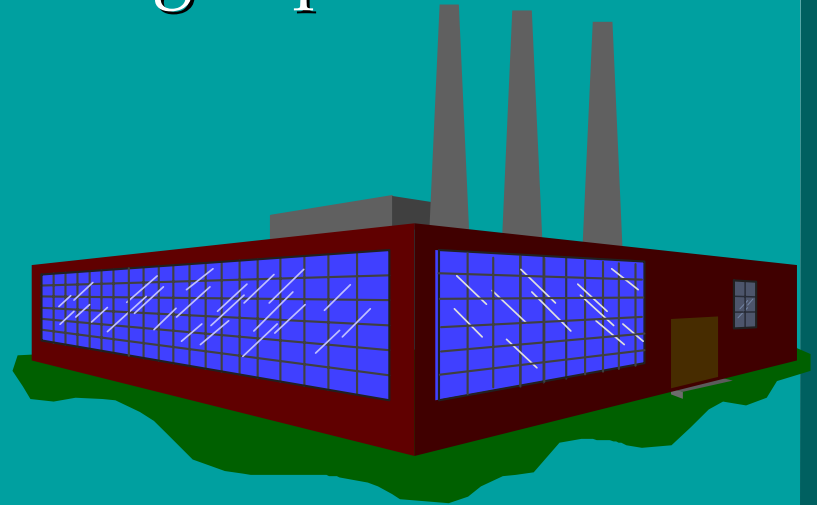
# Energy & Recycling Office

- Focus on Energy and Material Efficiency
- Offer Low Interest Loans and Grants for
  - Energy Efficiency
  - Recycling
  - Alternative Energy
  - Conservation
- Work with Federal Agencies:
  - Department of Energy
  - Environmental Protection Agency
- Work with other State Agencies and local organizations to bring the benefits to the citizens of Indiana



# Obstacles to Installing Distributed Generation

- Cost of Equipment
- Cost of Installation
- Long Payback Period
- Absence of technical training at plant
- Permitting

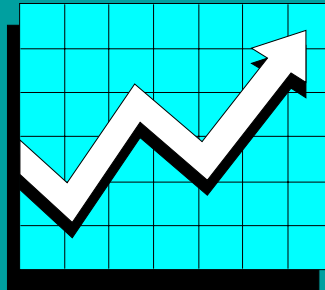


# Benefits from Distributed Generation

- Reduced energy costs
- Reduced emissions
- Reliability



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# ERO Loan Programs

- Industrial Energy Efficiency Fund (IEEF) zero-interest loan program
- Public Facilities Energy Efficiency Program (PFEETP)
- Administered by the ERO for the Recycling and Energy Development Board (REDB)

# Industrial Energy Efficiency Fund (IEEF)

- Zero-interest loans
- 50% of eligible project cost
- \$250,000 maximum loan
- Creative repayment terms based on specifics of project





# Case Study: Jasper Engine

- Installed co-generation
- Captured waste heat
- Placed boiler off line
- Saved 268,449 kWh and \$9064 in 2002
- Helps hedge energy costs



# Public Facilities Energy Efficiency Program (PFEEP)



- \$100,000 zero-interest loans
- For municipal buildings: schools, libraries, town halls
- Administered on the Quarterly REDB schedule

# PFEEP Projects

- Daleville Community Schools : \$100,000 for energy-efficient lighting retrofit
  - lighting levels in the school increased by 28%.
  - \$16,000 is being saved annually because of the upgrade.
- Huntington Park and Recreation Department: \$10,500 loan for:
  - Energy-efficient heating, air conditioning
  - Lighting retrofit, installing
  - Energy-efficient natural gas boiler

# A Project Should Contain the Following Elements:

- Proposed technology is highly energy efficient.
- Energy savings will cover the cost of the project.
- The energy efficient aspects require additional upfront investment.
- Must be in compliance with all applicable environmental laws.

# Who should be involved?

- Plant Manager
- Financial Manager
- Corporate Officer
- Engineering
- Operations
- Environmental & Regulatory

# REDB Application Process

- Submit 2-page proposal
- ERO review and assessment of project
- Prepare full application
- Applications reviewed Quarterly by Recycling & Energy Development Board
- Loan agreement executed



# REDB Schedule

- Round 49

- Proposal letters due April 25, 2003
- Applicants invited May 2, 2003
- Applications due June 6, 2003
- 1<sup>st</sup> Review Team meeting: June 25<sup>th</sup>
- 2<sup>nd</sup> Review Team meeting: July 18<sup>th</sup>
- R-48 REDB meeting August 7, 2003

# 2003 REDB Schedule

- Round 48: May 1, 2003
  - Proposals due January 24<sup>th</sup>
- Round 49: August 7, 2003
  - Proposals due April 25<sup>th</sup>
- Round 50: November 6, 2003
  - Proposals due July 25<sup>th</sup>
- Round 51: February ?, 2004



# Grant Programs

- Distributed Generation Grant Program (DGGP)
- Alternative Power & Energy (AP&E)
- Applicant Cost Share Required
- Open Application Process and quick turn around

# Distributed Generation Grant Program (DGGP)

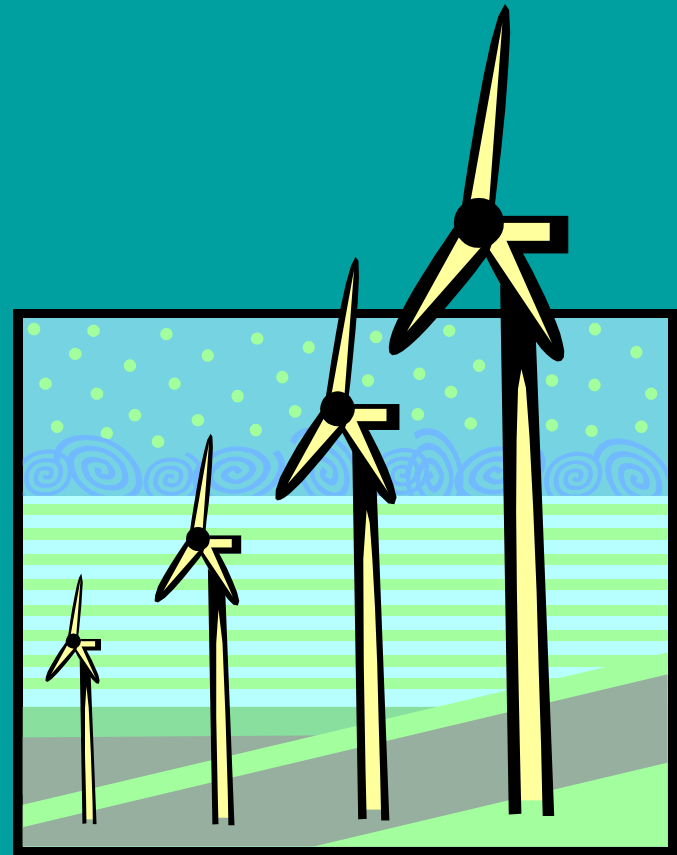
- Grants of up to 30% or up to \$30,000 for Distributed Generation Projects that are:
  - High Efficiency or,
  - Renewable Energy, or
  - Fuel Cells,
- And are Not:
  - Peak Shaving or Backup
  - Residential or Transportation

# Alternative Power & Energy Grant Program (AP&E)

- \$30,000 Grant or up to 30% Match
- Renewable Energy Project
  - To Generate Electricity
  - To Generate Heating and/or Cooling
- Power from Landfill Gas, Digester Gas, Solar, Wind, Geothermal and Wood Waste

# Types of Equipment

- Internal Combustion Engines
- Combustion Turbines and Microturbines
- Fuel Cells
- Wind Turbines
- Photovoltaic Panels
- Other



# Additional Assistance

- Department of Energy Programs
  - US DOE Programs
    - U.S. DOE Hydrogen Initiative
    - U.S. DOE Solicitations
    - U.S. DOE Best Practices Grants and Technical Assistance programs
    - U.S. EPA Free Energy Analysis

# Free Energy Analysis

- Under 100,000 sq.ft.
- Not energy equipment industry
- Sign up with EPA's Energy-Star Small Business Program
- Agree to upgrade (where profitable) based on payback of 3 years or less

# Thank You

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